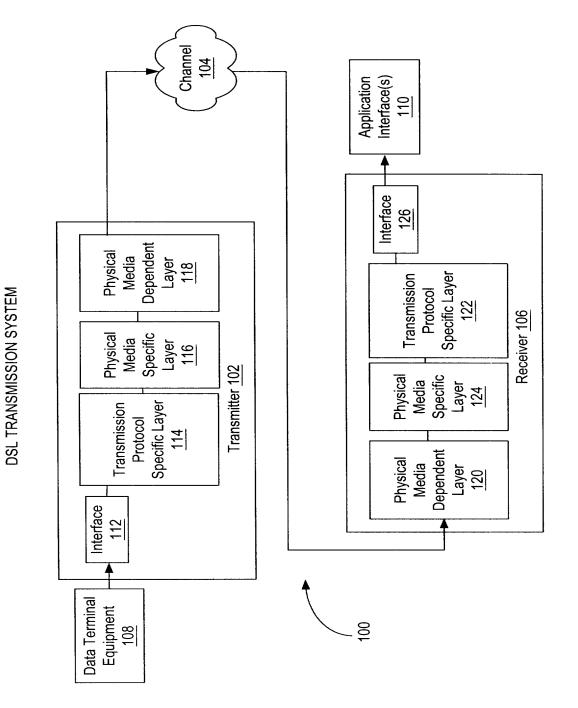
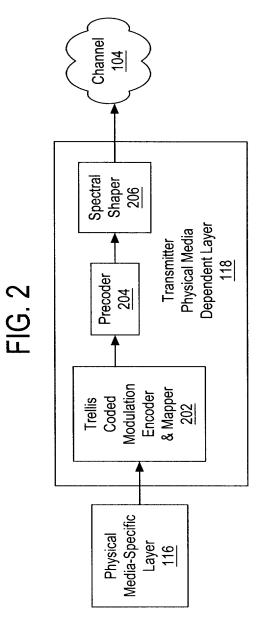
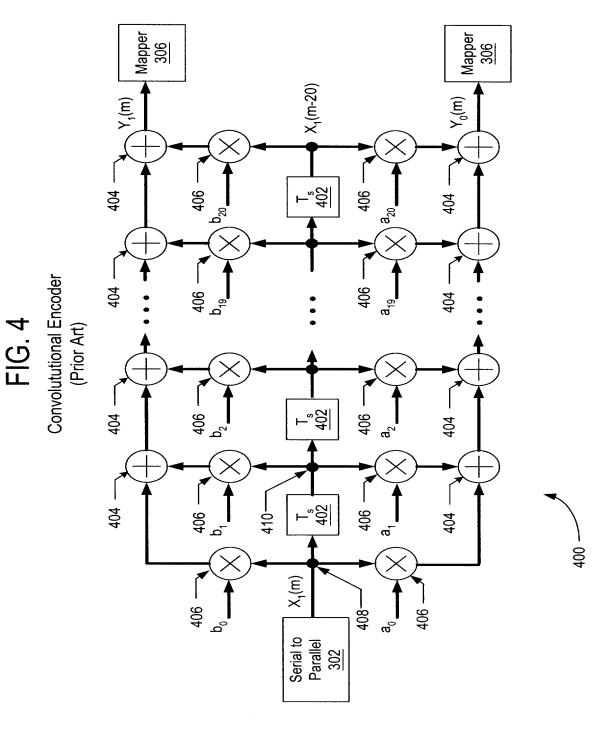
FIG. 1





Precoder <u>204</u> Mapper 306 Receiver 106  $Y_2(m)$  $Y_{K}(m)$  $Y_0(m)$ Y<sub>1</sub>(m) Interleaved Generalized Convolutional Encoder TCM Encoder & Mapper 202 FIG. 3  $s(mk+K-1)=X_K(m)$  $s(mk+1)=X_2(m)$  $s(mk+0)=X_1(m)$ Serial to Parallel 302 Physical Media Specific-Layer



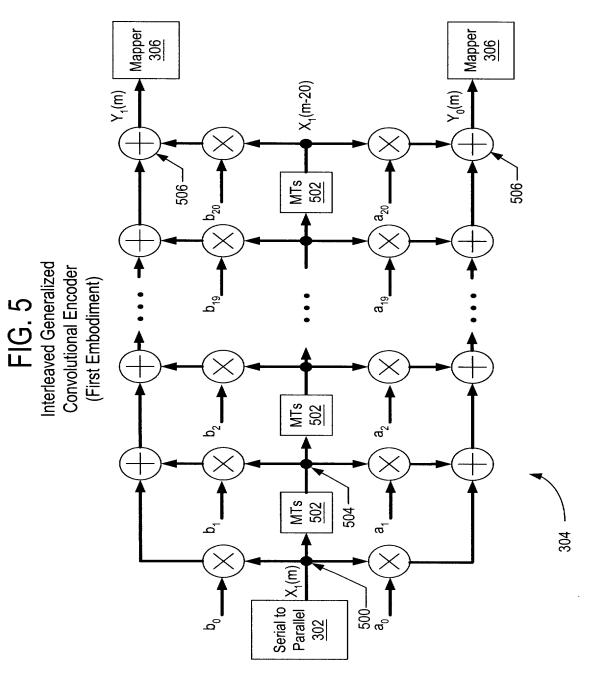


FIG. 6

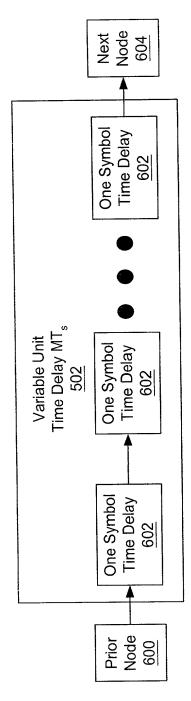


FIG. 7 Activation Frame Format (Prior Art)

1 - 1 : - 7	
Activation	
Frame Bit	Definition
LSB:MSB	
1.14	Frame Sync for T <sub>c</sub> and T <sub>r</sub> : 11111001101011 <sub>2</sub> , where the left-most bit
- -	is sent first in time
	Frame Sync for F <sub>c</sub> : 11111001101112, where the left-most bit is sent
	first in time
15.36	Precoder Coefficient 1: 22 bit signed two's complement format with 17
	bits after the binary point, where the LSB is sent first in time
37:58	Precoder Coefficient 2
59:3952	Precoder Coefficients 3 – 179
3953:3974	Precoder Coefficient 180
3975:3995	Encoder Coefficient A: 21 bits where the LSB is sent first in time
3996:4016	Encoder Coefficient B: 21 bits where the LSB is sent first in time
4017:4144	Vendor Data: 128 bits of proprietary information
4145:4211	Reserved: 67 bits set to logical zeros
4212:4227	CRC: c <sub>1</sub> sent first in time, c <sub>15</sub> sent last in time

FIG. 8

## Interleaved Generalized Convolutional Encoder Activation Frame Format

Activation	
Frame Bit	Definition
LSB:MSB	
7.17	Frame Sync for T <sub>c</sub> and T <sub>r</sub> : 11111001101011 <sub>2</sub> , where the left-most bit
<u>+</u> -	is sent first in time
	Frame Sync for $F_c$ : 11111001101112, where the left-most bit is sent
	first in time
15.36	Precoder Coefficient 1: 22 bit signed two's complement format with 17
00	bits after the binary point, where the LSB is sent first in time.
37:58	Precoder Coefficient 2
59:3952	Precoder Coefficient 3 –179
3953:3974	Precoder Coefficient 180
3975:3995	Encoder Coefficient A: 21 bits where the LSB is sent first in time
3996:4016	Encoder Coefficient B: 21 bits where the LSB is sent first in time
4017:4024	Multiplicity of Convolution Encoders, M: 8 bits where the LSB is
	sent first in time
4025:4152	Vendor Data: 128 bits of proprietary information
4153:4211	Reserved: <b>59</b> bits set to logical zeros
4212:4227	CRC: c <sub>1</sub> sent first in time, c <sub>15</sub> sent last in time

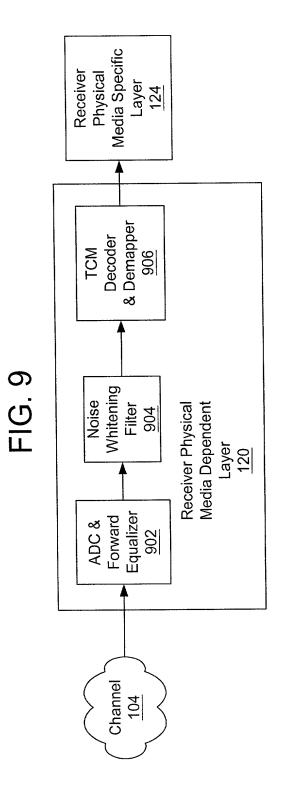


FIG. 10

